

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Bruno FRANCOEUR et al.

Serial No. 09/147,574

Group Art Unit: Unknown

Filed: January 22, 1999

Examiner: Unknown

For: LOW STRAY
INTERCONNECTION
INDUCTANCE POWER
CONVERTING MODULE FOR
CONVERTING A DC VOLTAGE
INTO AN AC VOLTAGE, AND
A METHOD THEREFOR

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.56

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith on a modified Form PTO-1449 is a listing of documents known to applicants in order to comply with applicants' duty of disclosure pursuant to 37 C.F.R. § 1.56. A copy of each listed document is being submitted to comply with the provisions of 37 C.F.R. § 1.97-1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie prior art reference against the claims of the present application.

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TIMING OF THE DISCLOSURE

The instant Information Disclosure Statement is being filed in compliance with 37 C.F.R. § 1.97(b) within three (3) months of the filing date of the above-identified application.

RELEVANCE OF EACH DOCUMENT

The relevance of the documents is described in the present specification and/or in the International Search Report. English language abstracts for the foreign documents have been provided. The absence of a translation or an English-language counterpart document does not relieve the PTO from its duty to consider any submitted document (37 C.F.R. § 1.98 and M.P.E.P. § 609).

Applicants respectfully request that the listed documents be considered by the Examiner and formally be made of record in the present application and that an initialled copy of Form PTO-1449 be returned in accordance with M.P.E.P. § 609.

Respectfully submitted,

April 22, 1999
Date

George C. Burk
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FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: April 22, 1999

ATTY DOCKET NO.
017835/0342APPLICANT
Bruno FRANCOEUR *et al.*FILING DATE
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UnknownNO. 09/147574
05,574

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	4,670,833	06/02/87	Sachs	363	132	
	A2	4,755,910	07/05/88	Val	361	401	
	A3	4,907,068	03/06/90	Amann <i>et al.</i>	357	74	
	A4	5,043,859	08/27/91	Korman <i>et al.</i>	363	147	
	A5	5,132,896	07/21/92	Nishizawa <i>et al.</i>	363	144	
	A6	5,142,439	08/25/92	Huggett <i>et al.</i>	361	321	
	A7	5,170,337	12/08/92	Borowiec <i>et al.</i>	363	147	
	A8	5,202,578	04/13/93	Hideshima	257	685	
	A9	5,313,363	05/17/94	Arbanas	361	710	
	A10	5,347,158	09/13/94	Matsuda <i>et al.</i>	257	691	
	A11	5,414,616	05/09/95	Hatozaki	363	132	
	A12	5,424,579	06/13/95	Arai <i>et al.</i>	257	690	
	A13	5,430,326	07/04/95	Miyashita	257	690	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A14	5,444,295	08/22/95	Lake et al.	257	678	
	A15	5,457,604	10/10/95	Ando	361	707	
	A16	5,459,356	10/17/95	Schulze et al.	257	773	
	A17	5,471,089	11/28/95	Nagatomo et al.	257	691	
	A18	5,493,472	02/20/96	Lavene	361	329	
	A19	5,512,790	04/30/96	Lachenmaier et al.	307	112	
	A20	5,523,620	06/04/96	Eytcheson et al.	257	690	
	A21	5,528,073	06/18/96	Gilmore	257	584	
	A22	5,541,453	07/30/96	Stockmeier et al.	257	723	
	A23	5,563,447	10/08/96	Lake et al.	257	724	
	A24	5,574,312	11/12/96	Bayerer et al.	257	706	
	A25	5,616,955	04/01/97	Yamada et al.	257	690	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	A26	0427143	11/02/90	Europe			abstract
	A27	0621635	04/21/94	Europe			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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	A28	0688092	06/12/95	Europe			
	A29	2261768	05/26/93	United Kingdom			
	A30	6-225545	08/12/94	Japan			abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	A31		Upchurch et al., "Bus Bars Improve Power Module Interconnections," Power Conversion & Intelligent Motion: The Fusion of Power & Motion Tech. & Applns., Vol. 21, No. 4, pp. 18 & 22-25, Apr. '95.
	A32		Anderson et al., "Advanced Power Module using GaAs Semiconductors, Metal Matrix Composite Packaging Material, and Low Inductance Design," IEEE Int. Symposium on Power Semiconductor Devices & IC's, pp. 21-24, 1994.
	A33		Stockmeier et al., "Reliable 1200 Amp 2500 V IGBT Modules for Traction Applications," IEE Colloquium (Digest), #81, pp. 3/1-3/13, 1995.
	A34		Medaule et al., "Latest Technology Improvements of Mitsubishi Modules," IEE Colloquium (Digest), #146, pp. 5/1-5/5, 1996.
	A35		Shinohara et al., "A Novel Low-Profile Power Module Aimed at High-Frequency Applications," ISPSD Proceedings, 8th Int'l. Symposium on Power Semiconductor Devices and ICs, pp. 321-324, May 1996.
	A36		Takahashi et al., "Toward 99% Efficiency for Transistor Inverters," IEEE Industry Applications Magazine, Vol. 2, pp. 39-46, November/December 1996.

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